

Work Order ID 141135

March 10, 2016 2:23:31 PM

141135

Page 1

Item ID: D4406-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Fwd Wearplate Assembly
Start Date: 2/8/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 2/9/2016 Req'd Qty: 1.00 ***1*** Customer: CWILD02
Reference: RMA RA112217

Approvals: Process Plan: SEA Date: 20160310 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4406	D								
100		0.00							
100									
QC	Memo	0.00							
Quality Control	INSPECT D4406-041 B134331 ON RA112217								
	DAMAGE FOUND TO ROCKGUARD								
110		0.00							
110									
Small Fab	Memo	0.00							
Small Fab	TOUCH UP ROCKGUARD AS PER DRAWING D4406								
	134278								
120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC	Memo	0.00							
Quality Control									

① 16-03-11 PD

1 DAS 41 9-89 16-3-11

① DAS 38 9-89 MAR 14 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Page 2

Cust Item ID:
Customer: CWILD02

Run	Start	*NR1*
	Stop	*NR2*

MAR 15 2016

mc5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

March 10, 2016 2:24:10 PM

Page 1

Work Order ID: 141135

141135

Parent Item: D4406-041

D4406-041

Parent Item Name: Fwd Wearplate Assembly

Start Date: 2/8/2016

Required Date: 2/9/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP rev A 11.06.06 new issue EC verified by:DD IPP rev B
12.02.06 as per dwg revPB1 DD verf:EC IPP REV:C 15.11.16
AS PER PD1 DD VERF:JLM IPP REV:D 16.02.05 AS PER
DWG REV.D DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4406-041		Manufactured	No				Each	1.0000		1			
D4406-041									**	B134331		PD 16-03-15	
Fwd Wearplate Assembly													

Location

Loc Qty

Loc Code

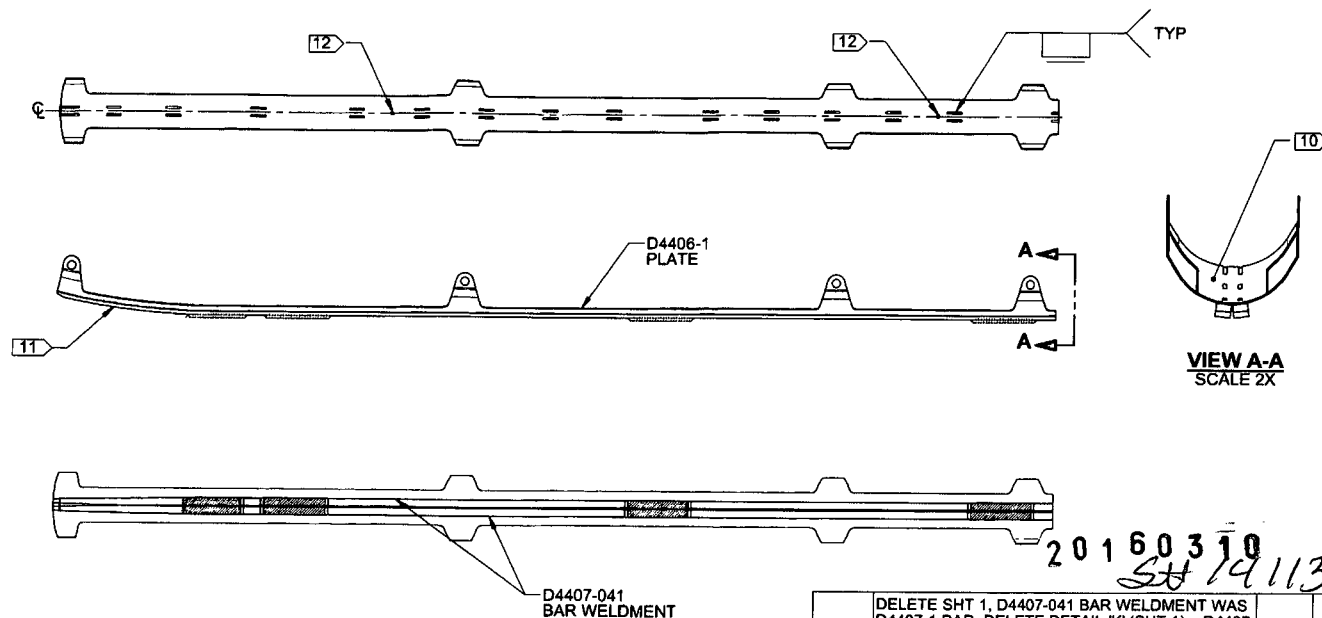
prelim

1

139173

1

ITEM	QTY -041	P/N	DESCRIPTION
	X	D4406-041	FWD WEARPLATE ASSY
1	1	D4406-1	PLATE
2	2	D4407-041	BAR WELDMENT



D4406-041 FWD WEARPLATE ASSY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 8.48 lbs
- 8) WELDING: PER QSI 004
- 9) N/A
- 10) COAT ENTIRE TOP (CONCAVE) SURFACE WITH TEXTURED COATING, 0.020-0.040 THICK, PER DART QSI 005 4.9
- 11) FORM TO MATCH PROFILE OF D4406-1 AT TIME OF WELDING.
- 12) TRANSFER Ø0.188 HOLES FROM D4406-1 TO D4407-041

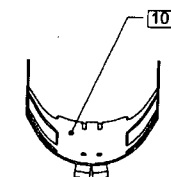
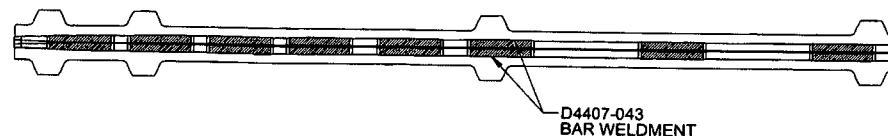
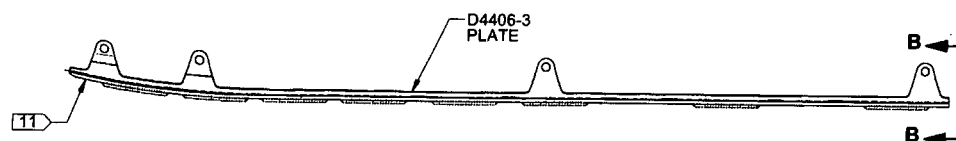
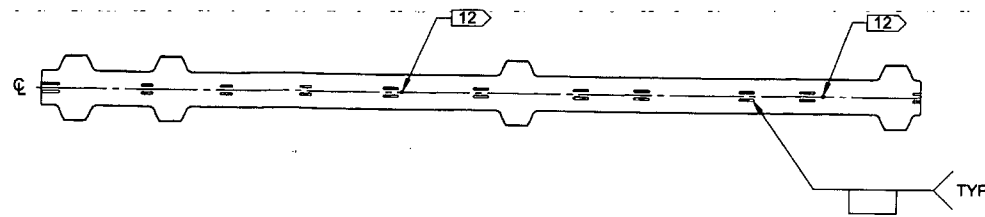
D	DELETE SHT 1, D4407-041 BAR WELDMENT WAS D4407-1 BAR, DELETE DETAIL 'K' (SHT 1), D4407-043 BAR WELDMENT WAS D4407-3 BAR, DELETE DETAIL 'L' (SHT 2), REMOVE NOTE 9 (SHT 1&2), NOTE 10: TEXTURED COATING WAS ROCKGUARD (SH 1&2), NOTE 12: D4407-041 WAS D4407-1 (SHT 1), D4407-043 WAS D4407-3 (SHT 2), REMOVE NOTE 13 (SHT 1&2)	DB	15.10.14
C	SHEETS 4 AND 5 HOLE SLOTS RE-PITCHED, SHT 5 FWD SLOT SIZES WERE 0.88 (REF NCR12-2031)	AJS	13.03.11
B	REVISE BILL OF MATERIAL; ADD NOTE 13/14 & REVISE NOTE 9 SHT 2&3; MODIFY DETAIL E & F (ZN B3-6, C2-6); ADD DETAIL G (ZN C7-6); REVISE D4406-3F TAB LOCATIONS (ZN B5-5)	RF	12.02.16
A	NEW ISSUE	RF	11.08.15
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DB		
CHECKED	ML	DRAWING NO.	REV. D
MFG. APPR.	DD	D4406	SHEET 1 OF 5
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	WEARPLATE ASSY	NTS
DATE	15.10.14	COPYRIGHT © 2011 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

RELEASED
2016-02-08
ERN 16-51B

APPROVED

ITEM	QTY -043	P/N	DESCRIPTION
	X	D4406-043	WEARPLATE ASSY
1	1	D4406-3	PLATE
2	2	D4407-043	BAR WELDMENT

△ D



VIEW B-B
SCALE 2X

D4406-043 AFT WEARPLATE ASSY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 8.70 lbs
- 8) WELDING: PER QSI 004
- 9) N/A
- 10) COAT ENTIRE TOP (CONCAVE) SURFACE WITH TEXTURED COATING, 0.020-0.040 THICK, PER DART QSI 005 4.9
- 11) FORM TO MATCH PROFILE OF D4406-3 AT TIME OF WELDING.
- 12) TRANSFER Ø0.188 HOLES FROM D4406-3 TO D4407-043

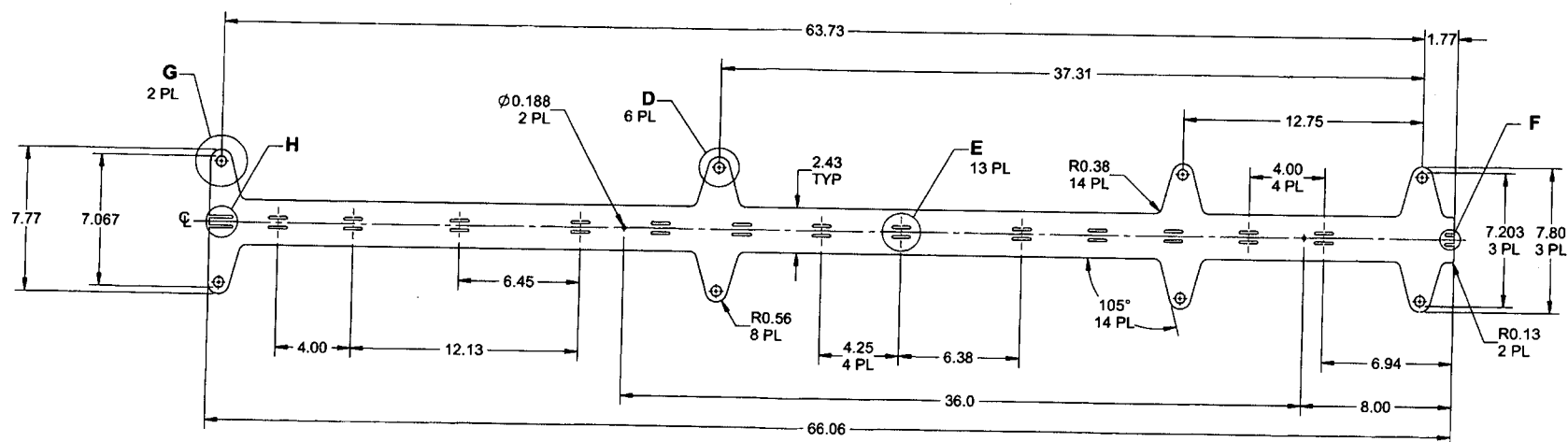
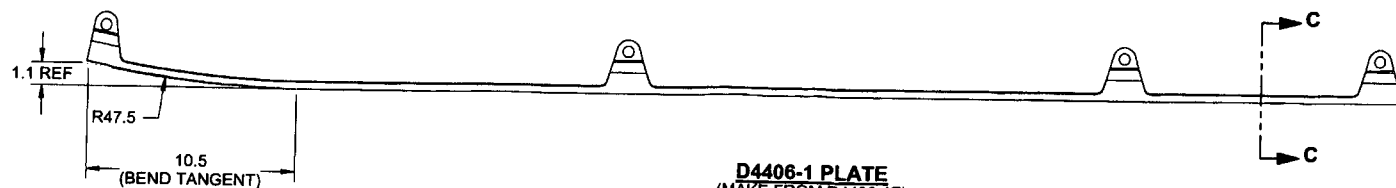
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DESIGN	RF	DART AEROSPACE LTD
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APPROVED	WM	TITLE
DE APPR.	DS	WEARPLATE ASSY
DATE	15.10.14	SCALE
		NTS

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NOTES:

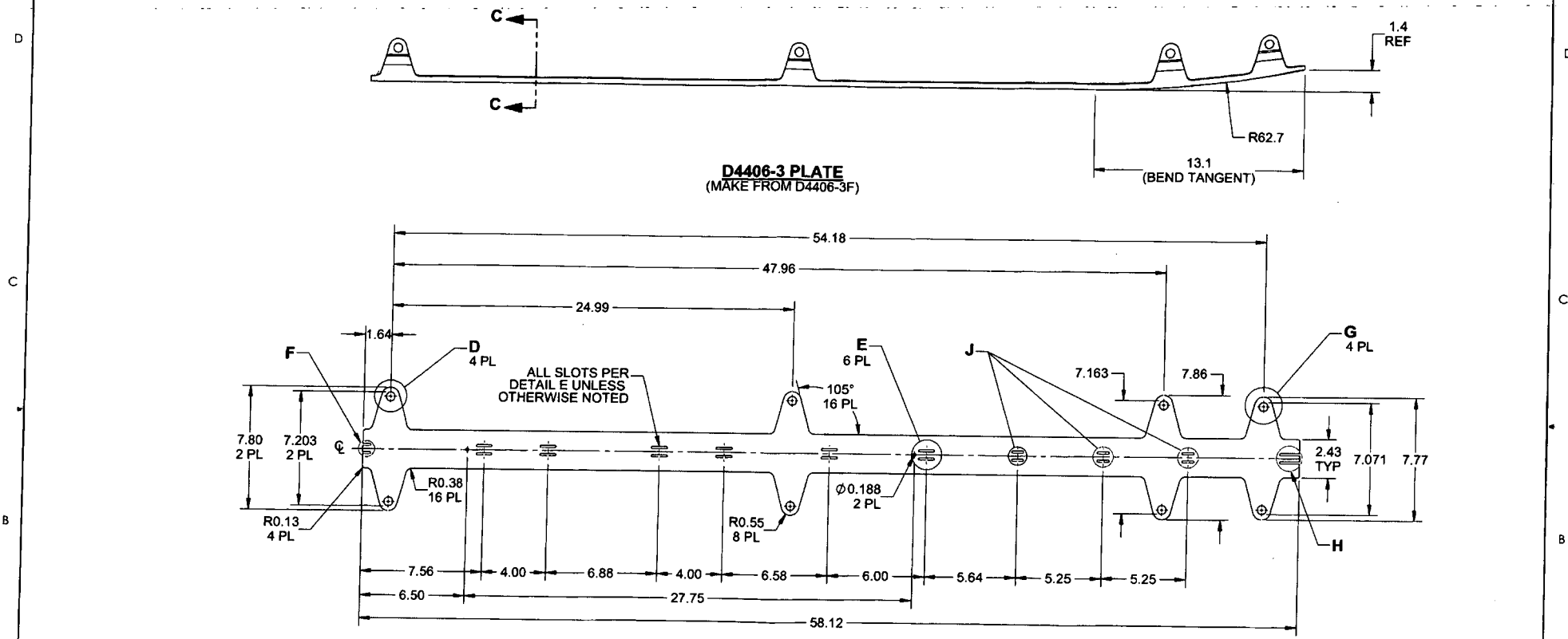
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 0.050 THICK (18 GAUGE)
PER AMS 5513 OR 5524 OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S18GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 2.7 lbs

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MFG. APPR.	DD	D4406	SHEET 3 OF 5
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8 7 6 5 4 3 2 1



D4406-3 PLATE
(MAKE FROM D4406-3F)

D4406-3F FLAT PATTERN

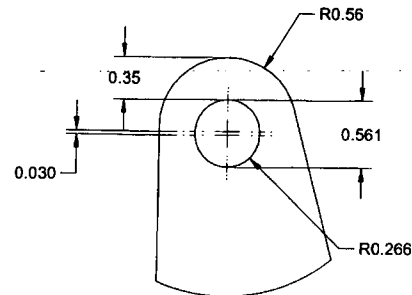
- NOTES:**
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 0.050 THICK (18 GAUGE)
PER AMS 5513 OR 5524
OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S18GA
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: 2.5 lbs

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2016-02-08

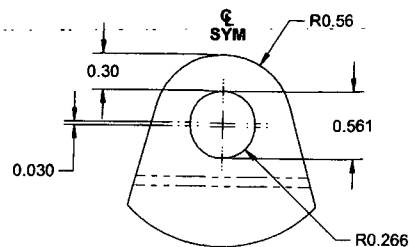
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MFG. APPR.	DD	D4406	SHEET 4 OF 5
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DE APPR.	DS	WEARPLATE ASSY	NTS
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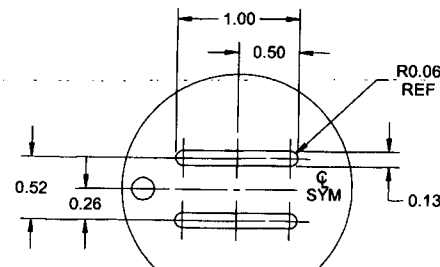
8 7 6 5 4 3 2 1



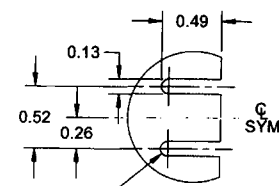
DETAIL G
SCALE 6X



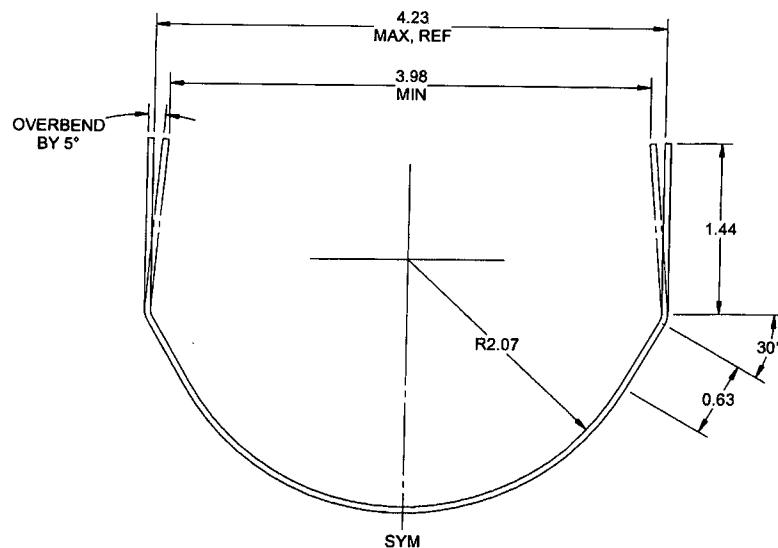
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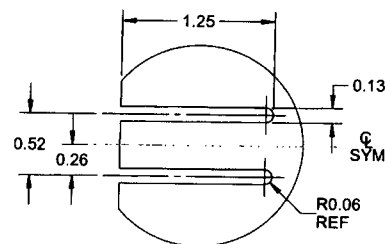
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SCALE 6X



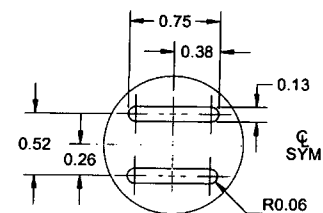
DETAIL F
SCALE 6X



DETAIL C
DETAIL TYP
SCALE 6X



DETAIL H
SCALE 6X



DETAIL J
SCALE 6X

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2016-02-08

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CHECKED	ML
MFG. APPR.	DD
APPROVED	WM
DE APPR.	DS
DATE	15.10.14

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